

Refine Search

Search Results -

Terms	Documents
L3 and risk	8

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L4

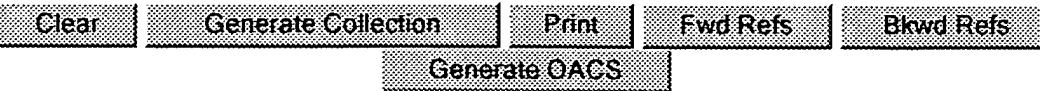
Search History

DATE: Tuesday, August 16, 2005 [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR			
<u>L4</u>	L3 and risk	8	<u>L4</u>
<u>L3</u>	706/62.ccls.	118	<u>L3</u>
<u>L2</u>	09/895,605	1	<u>L2</u>
<u>L1</u>	20040227404	2	<u>L1</u>

END OF SEARCH HISTORY

Hit List



Search Results - Record(s) 1 through 8 of 8 returned.

1. Document ID: US 20020116352 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 8

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020116352
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020116352 A1

TITLE: Computer-implemented methods and apparatus for alleviating abnormal behaviors

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Kilgard, Michael	Richardson	TX	US	
Merzenich, Michael M.	San Francisco	CA	US	
Bao, Shaowen	San Francisco	CA	US	

US-CL-CURRENT: 706/25; 706/62

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [R00C](#) | [Drawn Ds](#)

2. Document ID: US 20020062297 A1

L4: Entry 2 of 8

File: PGPB

May 23, 2002

PGPUB-DOCUMENT-NUMBER: 20020062297
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020062297 A1

TITLE: Control system for controlling object using pseudo-emotions and pseudo-personality generated in the object

PUBLICATION-DATE: May 23, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mizokawa, Takashi	Iwata-shi		JP	

US-CL-CURRENT: 706/15; 706/62

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn
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□ 3. Document ID: US 6879974 B1

L4: Entry 3 of 8

File: USPT

Apr 12, 2005

US-PAT-NO: 6879974

DOCUMENT-IDENTIFIER: US 6879974 B1

TITLE: Numerical stochastic integration system

DATE-ISSUED: April 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ninomiya; Syoiti	Tokyo			JP
Katai; Masayuki	Kohnosu			JP

US-CL-CURRENT: 706/62; 707/3, 707/4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn
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□ 4. Document ID: US 6868412 B2

L4: Entry 4 of 8

File: USPT

Mar 15, 2005

US-PAT-NO: 6868412

DOCUMENT-IDENTIFIER: US 6868412 B2

TITLE: Means for and method of displaying a visual decision tree model

DATE-ISSUED: March 15, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gatehouse; Monty	Basingstoke			GB
Schipper; Hendrik J.	Alkmaar			NL
Buxton; Ian P.	Herts			GB

US-CL-CURRENT: 706/62; 345/595, 706/46, 715/763

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawn
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□ 5. Document ID: US 6233545 B1

L4: Entry 5 of 8

File: USPT

May 15, 2001

US-PAT-NO: 6233545

DOCUMENT-IDENTIFIER: US 6233545 B1

TITLE: Universal machine translator of arbitrary languages utilizing epistemic moments

DATE-ISSUED: May 15, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Datig; William E.	Centerport	NY	11721	

US-CL-CURRENT: 704/2; 704/9, 706/62

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMIC](#) | [Drawn Ds](#)

6. Document ID: US 6047279 A

L4: Entry 6 of 8

File: USPT

Apr 4, 2000

US-PAT-NO: 6047279

DOCUMENT-IDENTIFIER: US 6047279 A

TITLE: System and method for automatic network management support using artificial intelligence

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Barrack; Martin	Folsom	CA		
Lee; Andrew H.	El Dorado Hills	CA		

US-CL-CURRENT: 706/60; 706/61, 706/62

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KMIC](#) | [Drawn Ds](#)

7. Document ID: US 5195172 A

L4: Entry 7 of 8

File: USPT

Mar 16, 1993

US-PAT-NO: 5195172

DOCUMENT-IDENTIFIER: US 5195172 A

TITLE: System and method for representing and solving numeric and symbolic problems

DATE-ISSUED: March 16, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Elad; Joseph B.	Claymont	DE		
Johnson; Apperson H.	Wilmington	DE		
Kramer; Laurence A.	North East	MD		

Kirk; Jeffrey C.	Newtown Square	PA
Philips; Irene H.	New Castle	DE
Zickus; Susan M.	Wilmington	DE
Chester; Daniel L.	Newark	DE
Saniga; Erwin M.	Little Britain	PA

US-CL-CURRENT: 706/62; 705/7, 706/10, 706/11, 706/46, 706/53, 708/1

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn Ds](#)

8. Document ID: US 5077677 A

L4: Entry 8 of 8

File: USPT

Dec 31, 1991

US-PAT-NO: 5077677

DOCUMENT-IDENTIFIER: US 5077677 A

TITLE: Probabilistic inference gate

DATE-ISSUED: December 31, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murphy; John H.	Penn Hills	PA		
Jeeves; Terry A.	Penn Hills	PA		
Anderson; Arthur A.	Turtle Creek	PA		

US-CL-CURRENT: 706/62; 706/52, 706/900, 708/490

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn Ds](#)

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Terms	Documents
L3 and risk	8

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Refine Search

Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Search Results -

Terms	Documents
combin\$6 near (risk near (model\$6 or analy\$6))	8

Database: US Pre-Grant Publication Full-Text Database
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 US OCR Full-Text Database
 EPO Abstracts Database
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Search: L5

Search History

DATE: Tuesday, August 16, 2005 [Printable Copy](#) [Create Case](#)

Set Name Query
 side by side

Hit Count Set Name
 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

<u>L5</u>	combin\$6 near (risk near (model\$6 or analy\$6))	8	<u>L5</u>
<u>L4</u>	L3 and risk	8	<u>L4</u>
<u>L3</u>	706/62.ccls.	118	<u>L3</u>
<u>L2</u>	09/895,605	1	<u>L2</u>
<u>L1</u>	20040227404	2	<u>L1</u>

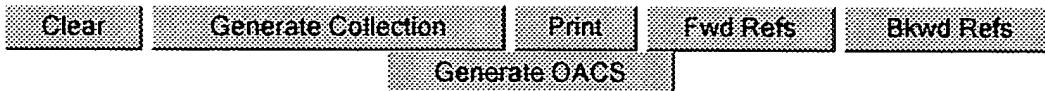
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Hit List

Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.



Search Results - Record(s) 1 through 8 of 8 returned.

1. Document ID: US 20040215529 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 8

File: PGPB

Oct 28, 2004

PGPUB-DOCUMENT-NUMBER: 20040215529

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040215529 A1

TITLE: System and method for energy price forecasting automation

PUBLICATION-DATE: October 28, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Foster, Andre E.	Smyrna	GA	US	
Greiner, Kevin	Decatur	GA	US	

US-CL-CURRENT: 705/26; 705/35

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [RQMC](#) | [Drawn D](#)

2. Document ID: US 20040172357 A1

L5: Entry 2 of 8

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040172357

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040172357 A1

TITLE: Method and system for selecting between or allocating among alternatives

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Padgette, Robert L.	Raleigh	NC	US	

US-CL-CURRENT: 705/38; 705/36R[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KDDC](#) | [Drawn](#) 3. Document ID: US 20040172317 A1

L5: Entry 3 of 8

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040172317

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040172317 A1

TITLE: System for improving processes and outcomes in risk assessment

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Davis, Nancy J.	Evanston	IL	US	
Kauderer, Steven Ira	Englewood	NJ	US	
McGiffin, Gail E.	Summit	NJ	US	
Ciraulo, Rose Mary	Harding Township	NJ	US	
Ziegler, Kathleen	Chicago	IL	US	
Tempesta, Anthony G.	Falls Church	VA	US	

US-CL-CURRENT: 705/7[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Sequences](#) | [Attachments](#) | [Claims](#) | [KDDC](#) | [Drawn](#) 4. Document ID: US 20030110016 A1

L5: Entry 4 of 8

File: PGPB

Jun 12, 2003

PGPUB-DOCUMENT-NUMBER: 20030110016

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030110016 A1

TITLE: Integrative method for modeling multiple asset classes

PUBLICATION-DATE: June 12, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Stefek, Daniel	Oakland	CA	US	
Goldberg, Lisa Robin	Kensington	CA	US	
Scheffler, Scott Steven	Berkeley	CA	US	
Hui, Ken Chorlam	Alameda	CA	US	
Torre, Nicolas Goodrich	Greenwich	CT	US	

US-CL-CURRENT: 703/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM&C	Drawn D.
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5. Document ID: US 20030074291 A1

L5: Entry 5 of 8

File: PGPB

Apr 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030074291

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030074291 A1

TITLE: Integrated program for team-based project evaluation

PUBLICATION-DATE: April 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hartung, Christine	Jena		DE	
Ott, Wilhelm	Dreieich		DE	
Schwebke, Sandra	Griesheim		DE	

US-CL-CURRENT: 705/35

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM&C	Drawn D.
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6. Document ID: US 6826697 B1

L5: Entry 6 of 8

File: USPT

Nov 30, 2004

US-PAT-NO: 6826697

DOCUMENT-IDENTIFIER: US 6826697 B1

TITLE: System and method for detecting buffer overflow attacks

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moran; Douglas B.	Palo Alto	CA		

US-CL-CURRENT: 713/201; 709/223, 709/224

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KM&C	Drawn D.
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7. Document ID: US 6647400 B1

L5: Entry 7 of 8

File: USPT

Nov 11, 2003

US-PAT-NO: 6647400

DOCUMENT-IDENTIFIER: US 6647400 B1

TITLE: System and method for analyzing filesystems to detect intrusions

DATE-ISSUED: November 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moran; Douglas B.	Palo Alto	CA		

US-CL-CURRENT: 707/205; 707/6, 713/168, 713/187, 713/200

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

8. Document ID: US 6158657 A

L5: Entry 8 of 8

File: USPT

Dec 12, 2000

US-PAT-NO: 6158657

DOCUMENT-IDENTIFIER: US 6158657 A

TITLE: System and method for offering and providing secured credit card products

DATE-ISSUED: December 12, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hall, III; Sheldon F.	Arlington	VA		
Stoikoff; Ivan T.	Arlington	VA		

US-CL-CURRENT: 235/380; 235/379

[Full](#) | [Title](#) | [Citation](#) | [Front](#) | [Review](#) | [Classification](#) | [Date](#) | [Reference](#) | [Claims](#) | [KOMC](#) | [Drawn D](#)

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Terms

Documents

combin\$6 near (risk near (model\$6 or analy\$6))

8

Display Format: Change Format

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Refine Search

Search Results -

Terms	Documents
L3 and (risk near (model\$6 or analy\$6))	1

Database:

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Search:

L7

Search History

DATE: Tuesday, August 16, 2005 [Printable Copy](#) [Create Case](#)

Set Name Query**Hit Count Set Name**
result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

<u>L7</u>	L3 and (risk near (model\$6 or analy\$6))	1	<u>L7</u>
<u>L6</u>	705/38.ccls.	859	<u>L6</u>
<u>L5</u>	combin\$6 near (risk near (model\$6 or analy\$6))	8	<u>L5</u>
<u>L4</u>	L3 and risk	8	<u>L4</u>
<u>L3</u>	706/62.ccls.	118	<u>L3</u>
<u>L2</u>	09/895,605	1	<u>L2</u>
<u>L1</u>	20040227404	2	<u>L1</u>

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 1 of 1 returned.

1. Document ID: US 6868412 B2

Using default format because multiple data bases are involved.

L7: Entry 1 of 1

File: USPT

Mar 15, 2005

US-PAT-NO: 6868412

DOCUMENT-IDENTIFIER: US 6868412 B2

TITLE: Means for and method of displaying a visual decision tree model

DATE-ISSUED: March 15, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gatehouse; Monty	Basingstoke			GB
Schipper; Hendrik J.	Alkmaar			NL
Buxton; Ian P.	Herts			GB

US-CL-CURRENT: 706/62; 345/595, 706/46, 715/763

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KM/C	Drawn D.
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L3 and (risk near (model\$6 or analy\$6))	1

Display Format: [-] [Change Format](#)

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Refine Search

Search Results -

Terms	Documents
L6 and (risk near (model\$6 or analy\$6))	124

Database:

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Search:

L8

Search History

DATE: Tuesday, August 16, 2005 [Printable Copy](#) [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR			
<u>L8</u>	L6 and (risk near (model\$6 or analy\$6))	124	<u>L8</u>
<u>L7</u>	L3 and (risk near (model\$6 or analy\$6))	1	<u>L7</u>
<u>L6</u>	705/38.cc1s.	859	<u>L6</u>
<u>L5</u>	combin\$6 near (risk near (model\$6 or analy\$6))	8	<u>L5</u>
<u>L4</u>	L3 and risk	8	<u>L4</u>
<u>L3</u>	706/62.cc1s.	118	<u>L3</u>
<u>L2</u>	09/895,605	1	<u>L2</u>
<u>L1</u>	20040227404	2	<u>L1</u>

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
L8 and asset\$2 and classes and global and covariance	1

Database:

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L9	<input type="button" value="Refine Search"/>
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 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

<u>L9</u>	L8 and asset\$2 and classes and global and covariance	1	<u>L9</u>
<u>L8</u>	L6 and (risk near (model\$6 or analy\$6))	124	<u>L8</u>
<u>L7</u>	L3 and (risk near (model\$6 or analy\$6))	1	<u>L7</u>
<u>L6</u>	705/38.ccls.	859	<u>L6</u>
<u>L5</u>	combin\$6 near (risk near (model\$6 or analy\$6))	8	<u>L5</u>
<u>L4</u>	L3 and risk	8	<u>L4</u>
<u>L3</u>	706/62.ccls.	118	<u>L3</u>
<u>L2</u>	09/895,605	1	<u>L2</u>
<u>L1</u>	20040227404	2	<u>L1</u>

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Search Results - Record(s) 1 through 1 of 1 returned.

1. Document ID: US 20050027645 A1

Using default format because multiple data bases are involved.

L9: Entry 1 of 1

File: PGPB

Feb 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050027645

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050027645 A1

TITLE: Business enterprise risk model and method

PUBLICATION-DATE: February 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Lui, William, Wai, Shing	Cortlandt Manor	NY	US	
Tang, Wai-Keung	Putnam Valley	NY	US	
Lu, Hung Jung	Stamford	CT	US	

US-CL-CURRENT: 705/38

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWMC	Drawn Ds
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Terms	Documents
L8 and asset\$2 and classes and global and covariance	1

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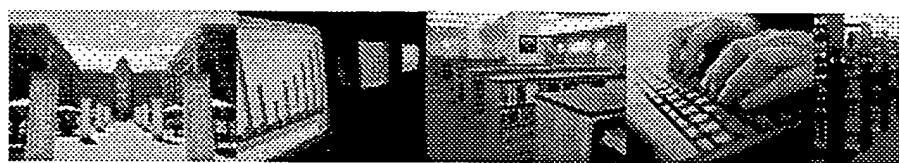
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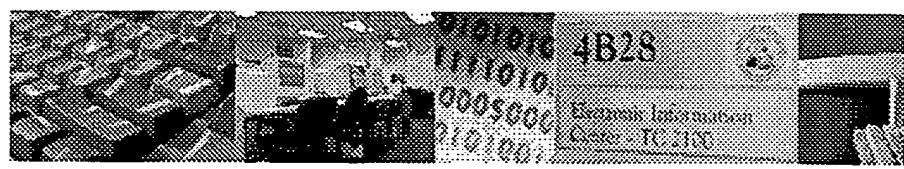
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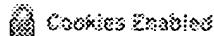
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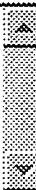
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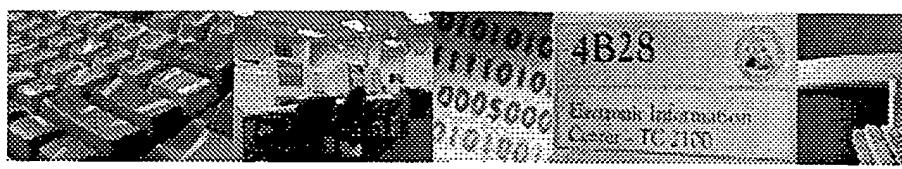
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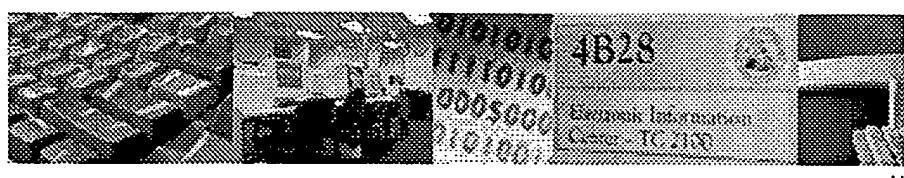
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7 Technical papers: software design: Sound methods and effective tools for engineering modeling and analysis

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December 2004 **The Journal of Machine Learning Research**, Volume 5

Full text available:  [pdf\(373.53 KB\)](#) Additional Information: [full citation](#), [abstract](#)

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Full text available:  [pdf\(278.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Forward estimates of area and delay facilitate effective decision-making when searching the solution space of digital designs. Current estimation techniques focus on modeling the layout result and fail to deliver timely or accurate estimates. This paper presents a novel approach to deriving these area and delay estimates at the RTL level by modeling the layout tool, rather than the layout result. This approach uses machine learning techniques to capture the relationships between general des ...

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Forward estimates of area and delay facilitate effective decision-making when searching the solution space of digital designs. Current estimation techniques focus on modeling the layout result and fail to deliver timely or accurate estimates. This paper presents a novel approach to deriving these area and delay estimates at the RTL level by modeling the layout tool, rather than the layout result. This approach uses machine learning techniques to capture the relationships between general des ...

Keywords: VLSI CAD, estimation, estimation techniques, layout, machine learning

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Full text available:  [pdf\(849.10 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



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This paper describes prototyping, a state-of-the-art methodology to assist a design team in making a through definition and analysis of new requirements, feasibility, alternative selections, workload impact, system and/or application specification, implementation, and testing. Suggested prototype tools and techniques are presented, and guidance is included to aid a design team in obtaining accurate and timely results. This paper is not intended to be a complete text on design. It should be ...

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Keywords: collaboratories, communities of practice, data sharing, metadata

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1 [Risk analysis: Problems in financial engineering: security price dynamics and simulation in financial engineering](#)

Stewart Mayhew

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**Full text available: [pdf\(283.95 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Applications in financial engineering have relied heavily on Brownian Motion as a workhorse model for pricing derivative securities and implementing risk management programs. When more than one state variable is required, the standard approach is to use a multivariate Brownian Motion with constant correlations. This article briefly summarizes several important reasons why this approach is not adequate (and in some cases, can lead to disaster). Examples include fat tails, volatility clustering ...

2 [A simulation procedure for estimating bias in well diversified portfolios](#)

George M. Frankfurter, Herbert E. Phillips

December 1976 **Proceedings of the 76 Bicentennial conference on Winter simulation**Full text available: [pdf\(413.00 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The existence of a selection bias in applications of the portfolio selection models have previously been identified. The importance of this bias, in terms of the magnitude of its potential impact on portfolio selection, has never been demonstrated. Monte Carlo approaches are used in this paper in order to demonstrate that selection bias is more than a mere mathematical curiosity; the effects of this bias are very significant. Other insights are provided by the simulations. The point is made ...

3 [Face recognition: A literature survey](#)

W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4Full text available: [pdf\(4.28 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies

after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

4 Risk analysis: New simulation methodology for finance: efficient simulation of gamma and variance-gamma processes 

Athanassios N. Avramidis, Pierre L'Ecuyer, Pierre-Alexandre Tremblay

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Full text available:  pdf(178.40 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We study algorithms for sampling discrete-time paths of a gamma process and a variance gamma process, defined as a Brownian process with random time change obeying a gamma process. The attractive feature of the algorithms is that increments of the processes over longer time scales are assigned to the first sampling coordinates. The algorithms are based on having in explicit form the process' conditional distributions, are similar in spirit to the Brownian bridge sampling algorithms proposed f ...

5 Risk analysis: Derivatives and credit risk: importance sampling for multimodal functions and application to pricing exotic options 

Athanassios N. Avramidis

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Full text available:  pdf(183.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We consider importance sampling (IS) to increase the efficiency of Monte Carlo integration, especially for pricing exotic options where the random input is multivariate Normal. When the importance function (the product of integrand and original density) is multimodal, determining a good IS density is a difficult task. We propose an Automated Importance Sampling DEnsity selection procedure (AISDE). AISDE selects an IS density as a mixture of multivariate Normal densities with modes at certain ...

6 Multinational capital budgeting: A simulation model 

André Fourcans, Thomas J. Hindelang

January 1973 **Proceedings of the 6th conference on Winter simulation**

Full text available:  pdf(1.11 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The rapid growth of multinational corporations has hastened the need for the development of robust models to handle the increased risk and complexity. Particularly in capital budgeting, careful analysis and adequate reflection of the critical variables are essential. The great number of relevant variables, their significant interrelationships, and the high degree of uncertainty render mathematical models highly complex or infeasible to solve. To overcome these shortcomings, a "Hertz-t ...

7 Learning probabilistic models: an expected utility maximization approach 

Craig Friedman, Sven Sandow

December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available:  pdf(243.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We consider the problem of learning a probabilistic model from the viewpoint of an expected utility maximizing decision maker/investor who would use the model to make decisions (bets), which result in well defined payoffs. In our new approach, we seek good out-of-sample model performance by considering a one-parameter family of Pareto optimal models, which we define in terms of consistency with the training data and consistency with

a prior (benchmark) model. We measure the former by means of th ...

8 Technical papers: software architecture: Building product populations with software components

Rob van Ommering

May 2002 **Proceedings of the 24th International Conference on Software Engineering**

Full text available:  [pdf \(1.29 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Two trends have made reuse of embedded software for consumer electronics an urgent issue: the software of individual products becomes more and more complex, and the market demands a larger variety of products at an increasing rate. For that reason, various business groups within Philips organize their products as product families. A third trend is the integration of functions that until now were only found in separate products (e.g. a TV with Dolby Digital sound and a built-in DVD player). This ...

Keywords: architectural description language, component based development, configuration management, diversity, product family, product population

9 Data streams (DS): The time diversification monitoring of a stock portfolio: an approach based on the fractal dimension

Mehmed Kantardzic, Pedram Sadeghian, Chun Shen

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available:  [pdf \(183.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

Diversification is a technique used to reduce the risk of investment and is accomplished by including uncorrelated and independent stocks in one's portfolio. By diversifying, the investor aims to reduce the risk of an entire portfolio depreciating in value, if a few of the assets within the portfolio are depreciated. In the past, the correlation coefficient has been used as a basis for diversification. However, the correlation coefficient is problematic since it can not capture nonlinear dependence ...

Keywords: data mining, data streams, fractal dimension, stock market, time diversification

10 Risk analysis: State of the art tutorial I: simulation modeling for finance and insurance: applications of simulation models in finance and insurance

Thomas N. Herzog, Graham Lord

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Full text available:  [pdf \(442.64 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

We describe a number of applications of simulation methods to practical problems in finance and insurance. The first entails the simulation of a two-stage model of a property-casualty insurance operation. The second application simulates the operation of an insurance regime for home equity conversion mortgages (also known as reverse mortgages). The third is an application of simulation in the context of *Value at Risk*, a widely-used measure for assessing the performance of portf ...

11 Risk analysis: Simulation methodology for collateralized debt and real options: simulation and optimization for real options valuation

Barry R. Cobb, John M. Charnes

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Full text available:  pdf(262.66 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Real options valuation (ROV) considers the managerial flexibility to make ongoing decisions regarding implementation of investment projects and deployment of real assets. This paper introduces a simulation-optimization approach to valuing real investment options based on a model containing several decision variables and realistic stochastic inputs. Using this approach, the value of a portfolio of real investment projects is determined by maximizing the mean discounted cash flows calculated by ...

12 Analysis methodology: Generating daily changes in market variables using a multivariate mixture of normal distributions 

Jin Wang

December 2001 **Proceedings of the 33rd conference on Winter simulation**

Full text available:  pdf(123.89 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The mixture of normal distributions provides a useful extension of the normal distribution for modeling of daily changes in market variables with fatter-than-normal tails and skewness. An efficient analytical Monte Carlo method is proposed for generating daily changes using a multivariate mixture of normal distributions with arbitrary covariance matrix. The main purpose of this method is to transform (linearly) a multivariate normal with an input covariance matrix into the desired multivariate m ...

13 Risk analysis: New simulation methodology for risk analysis: rare-event, heavy-tailed simulations using hazard function transformations, with applications to value-at-risk 

Zhi Huang, Perwez Shahabuddin

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Full text available:  pdf(197.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We develop an observation that a simulation method introduced recently for heavy-tailed stochastic simulation, namely hazard-rate twisting, is equivalent to doing exponential twisting on a transformed version of the heavy-tailed random-variable; the transforming function is the hazard function. Using this approach, the paper develops efficient methods for computing portfolio value-at-risk (VAR) when changes in the underlying risk factors have the multivariate Laplace distribution.

14 Consumer acceptance of virtual stores: a theoretical model and critical success factors for virtual stores 

Lei-da Chen, Mark L. Gillenson, Daniel L. Sherrell

June 2004 **ACM SIGMIS Database**, Volume 35 Issue 2

Full text available:  pdf(303.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Virtual stores provide great efficiency in the retail value chain, and their existence has tremendously paved the way for the diffusion of electronic commerce. Understanding the determinants of consumer acceptance of virtual stores will provide important theoretical contributions to the area of business-to-consumer (B-to-C) electronic commerce and lead to the development of more effective and meaningful strategies for virtual stores. By expanding the Technology Acceptance Model and the Innovatio ...

Keywords: critical success factor, electronic commerce, innovation diffusion, online retailing, technology acceptance model, virtual store

15 Risk analysis: Derivatives and credit risk: enhanced quasi-monte carlo methods with 

dimension reduction

Junichi Imai, Ken Seng Tan

December 2002 Proceedings of the 34th conference on Winter simulation: exploring new frontiersFull text available:  [pdf\(302.65 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

In recent years, the quasi-Monte Carlo approach for pricing high-dimensional derivative securities has been used widely relative to other competitive approaches such as the Monte Carlo methods. Such success can be, in part, attributed to the notion of effective dimension of the finance problems. In this paper, we provide additional insight on the connection between the effective dimension and the quasi-Monte Carlo method. We also propose a dimension reduction technique which further enhances ...

16 Watermarking algorithms: Wavelet-based blind watermarking of 3D models 

F. Uccheddu, M. Corsini, M. Barni

September 2004 Proceedings of the 2004 workshop on Multimedia and security MM&Sec '04Full text available:  [pdf\(462.47 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Watermarking of 3D meshes has received a limited attention due to the difficulties encountered in extending the algorithms developed for 1D (audio) and 2D (images and video) signals to topological complex objects such as meshes. Other difficulties arise from the wide variety of attacks and manipulations 3D watermarks should be robust to. For this reason, most of the 3D watermarking algorithms proposed so far adopt a non-blind detection. In this paper we present a new blind watermarking algorithm ...

Keywords: 3D watermarking, 3D wavelets, blind detection, copyright protection, mesh watermarking

17 Overlay networking: Managing a portfolio of overlay paths 

Daria Antonova, Arvind Krishnamurthy, Zheng Ma, Ravi Sundaram

June 2004 Proceedings of the 14th international workshop on Network and operating systems support for digital audio and videoFull text available:  [pdf\(175.56 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In recent years, several architectures have been proposed and developed for supporting streaming applications that take advantage of multiple paths through the network simultaneously. We consider the problem of computing a set of paths and the relative amounts of data conveyed through them in order to provide the desired level of performance for data streams. Given the expectation, variance, and covariance of an appropriate metric of interest for overlay links, we attempt to solve the underlying ...

Keywords: overlay networks, video streaming

18 Equilibrium bandwidth and buffer allocations for elastic traffics 

Steven H. Low

June 2000 IEEE/ACM Transactions on Networking (TON), Volume 8 Issue 3Full text available:  [pdf\(339.27 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: bandwidth and buffer allocation, elastic traffic, equilibrium allocation, equilibrium pricing

19 Managing capacity for telecommunications networks under uncertainty 

Yann d'Halluin, Peter A. Forsyth, Kenneth R. Vetzal

August 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 4Full text available:  pdf{348.71 KB} Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The existing telecommunications infrastructure in most of the world is adequate to deliver voice and text applications, but demand for broadband services such as streaming video and large file transfer (e.g., movies) is accelerating. The explosion in Internet use has created a huge demand for telecommunications capacity. However, this demand is extremely volatile, making network planning difficult. In this paper, modern financial option pricing methods are applied to the problem of network inves ...

Keywords: network planning, real options, uncertain demand for capacity

20 What makes Internet users visit cyber stores again? key design factors for customer loyalty 

Jungwon Lee, Jinwoo Kim, Jae Yun Moon

April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**Full text available:  pdf{888.56 KB} Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Retaining customer loyalty is crucial in electronic commerce because the value of an Internet store is largely determined by the number of its loyal customers. This paper proposes a multi-phased model of customer loyalty for Internet shopping, which fully takes the characteristics of the Internet and cyber shopping into consideration. In order to validate the model, we conducted a web-based survey of the customers of various Internet stores, and the data was processed using structural equatio ...

Keywords: Internet shopping, customer interface, customer loyalty, electronic commerce, involvement, transaction cost, trust

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21 [Stratification issues in estimating value-at-risk](#)

Paul Glasserman, Philip Heidelberger, Perwez Shahabuddin

December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1**Full text available: [pdf\(88.01 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)
22 [Mutual fund performance—a reconsideration](#)

Manak C. Gupta

January 1974 **Proceedings of the 7th conference on Winter simulation - Volume 2**Full text available: [pdf\(427.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In a recent article Levy and Saranat, hereafter referred to as SL [6], raise the question of reconciling the phenomenal growth of mutual funds with the equally phenomenal evidence, produced by the studies of Jensen [5] and Treynor and Mazuy [11], to cite a few, that their risk return performance has not been superior to that of the unmanaged portfolios. SL attribute this paradoxical situation to comparison of mutual funds' performance against that of a highly diversified Standard and Poors ...

23 [Poster papers: A unifying framework for detecting outliers and change points from non-stationary time series data](#)

Kenji Yamanishi, Jun-ichi Takeuchi

July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**Full text available: [pdf\(572.91 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We are concerned with the issues of outlier detection and change point detection from a data stream. In the area of data mining, there have been increased interest in these issues since the former is related to fraud detection, rare event discovery, etc., while the latter is related to event/trend by change detection, activity monitoring, etc. Specifically, it is important to consider the situation where the data source is non-stationary, since the nature of data source may change over time in r ...

24 [Motion prediction for caching and prefetching in mouse-driven DVE navigation](#)

Addison Chan, Rynson W. H. Lau, Beatrice Ng



February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1Full text available:  pdf(683.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A distributed virtual environment (DVE) allows geographically separated users to participate in a shared virtual environment via connected networks. However, when the users are connected by the Internet, bandwidth limitation and network latency may seriously affect the performance and the interactivity of the system. This explains why there are very few DVE applications for the Internet. To address these shortcomings, caching and prefetching techniques are usually employed. Unfortunately, the ef ...

Keywords: Mouse motion prediction, caching and prefetching, distributed virtual environments, virtual navigation

25 Article abstracts with full text online: Object oriented software quality prediction using general regression neural networks 

S. Kanmani, V. Rhymend Uthariaraj, V. Sankaranarayanan, P. Thambidurai
September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5

Full text available:  pdf(273.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper discusses the application of General Regression Neural Network (GRNN) for predicting the software quality attribute -- fault ratio. This study is carried out using static Object-Oriented (OO) measures (64 in total) as the independent variables and fault ratio as the dependent variable. Software metrics used include those concerning inheritance, size, cohesion and coupling. Prediction models are designed using 15 possible combinations of the four categories of the measures. We also tes ...

Keywords: metrics, neural network, object oriented, software quality

26 Advanced tutorials: Bayesian statistics and the monte carlo method: bayesian statistics and the monte carlo method 

Thomas N. Herzog
December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Full text available:  pdf(232.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

We discuss the application of the Bayesian statistical paradigm in conjunction with Monte Carlo methods to practical problems. We begin by describing the basic constructs of the Bayesian paradigm. We then discuss two applications. The first entails the simulation of a two-stage model of a property-casualty insurance operation. The second application simulates the operation of an insurance regime for home equity conversion mortgages (also known as reverse mortgages). In this simulation, we bui ...

27 Accelerated simulation for pricing Asian options 

Felisa J. Vázquez-Abad, Daniel Dufresne
December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available:  pdf(114.29 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)28 Highly parallel computing in simulation on dynamic bond portfolio management 

Vittorio Moriggia, Marida Bertocchi, Jitka Dupaková
July 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language**, Volume 29 Issue 3

Full text available:  pdf(534.53 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The bond portfolio management problem is formulated as a stochastic program based on interest rate scenarios. It has been proved in Dupaková (1998) that small errors in constructing scenarios will not destroy the optimal solution. The aim of the contribution is to quantify, through carefully planned simulation studies, the magnitude of the above-mentioned errors and to give bounds, at a specified confidence level, for the optimal gap between the value related to the optimal first-stag ...

Keywords: bond portfolio management, high performance computing, simulation, term structure movements

29 IT capabilities: theoretical perspectives and empirical operationalization

Anandhi S. Bharadwaj, V. Sambamurthy, Robert W. Zmud

January 1999 **Proceeding of the 20th international conference on Information Systems**

Full text available:  pdf(143.83 KB) Additional Information: [full citation](#), [citations](#), [index terms](#)



30 The comparison of C++ and Mathematica in the generation of pseudo random numbers for financial and actuarial applications

Marco Micocci, Angelo Manna, Alvaro Tomassetti

July 1998 **ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language**, Volume 29 Issue 3

Full text available:  pdf(336.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



The paper considers the role of pseudo random number generators in the financial and actuarial numerical applications. Some generators are compared and some considerations are made about the distortion coming from their use. A general approach for the calculation of risk in financial and actuarial problems is presented.

Keywords: financial and actuarial applications, pseudo random number generators, risk theory

31 Accessibility interfaces: Older adults and visual impairment: what do exposure times and accuracy tell us about performance gains associated with multimodal feedback?

Julie A. Jacko, Ingrid U. Scott, Francois Sainfort, Leon Barnard, Paula J. Edwards, V. Kathlene Emery, Thitima Kongnakorn, Kevin P. Moloney, Brynley S. Zorich

April 2003 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available:  pdf(420.67 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



This study examines the effects of multimodal feedback on the performance of older adults with different visual abilities. Older adults possessing normal vision (n=29) and those who have been diagnosed with Age-Related Macular Degeneration (n=30) performed a series of drag-and-drop tasks under varying forms of feedback. User performance was assessed with measures of feedback exposure times and accuracy. Results indicated that for some cases, non-visual (e.g. auditory or haptic) and multimodal (b ...

Keywords: age related macular degeneration (AMD), multimodal feedback, multimodality, visual feedback, visually impaired users

32 Advanced tutorials: Control variate techniques for monte carlo simulation: control variates techniques for monte carlo simulation



Roberto Szechtman

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Full text available:  pdf(155.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper we present an overview of classical results about the variance reduction technique of control variates. We emphasize aspects of the theory that are of importance to the practitioner, as well as presenting relevant applications.

33 Adoption, diffusion, and infusion of IT: Extending the technology acceptance model: the influence of perceived user resources 

Kieran Mathieson, Eileen Peacock, Wynne W. Chin

July 2001 **ACM SIGMIS Database**, Volume 32 Issue 3

Full text available:  pdf(2.33 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There has been considerable research on the factors that predict whether individuals will accept and voluntarily use information systems. The technology acceptance model (TAM) has a base in psychological research, is parsimonious, explains usage behavior quite well, and can be operationalized with valid and reliable instruments. A limitation of TAM is that it assumes usage is volitional, that is, there are no barriers that would prevent an individual from using an IS if he or she chose to do so. ...

Keywords: technology adoption, technology diffusion

34 Measuring IT core capabilities for electronic commerce: results from a confirmatory factor analysis 

Hans van der Heijden

December 2000 **Proceedings of the twenty first international conference on Information systems**

Full text available:  pdf(175.03 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: factor analysis, measuring IS success, organizing

35 Using electronic media for information sharing activities: a replication and extension 

D. Sandy Staples, Sirkka L. Jarvenpaa

December 2000 **Proceedings of the twenty first international conference on Information systems**

Full text available:  pdf(186.62 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

36 Research track papers: Clustering time series from ARMA models with clipped data 

A. J. Bagnall, G. J. Janacek

August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available:  pdf(305.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Clustering time series is a problem that has applications in a wide variety of fields, and has recently attracted a large amount of research. In this paper we focus on clustering data derived from Autoregressive Moving Average (ARMA) models using k-means and k-medoids

algorithms with the Euclidean distance between estimated model parameters. We justify our choice of clustering technique and distance metric by reproducing results obtained in related research. Our research aim is to assess the aff ...

Keywords: ARMA, clustering, time series

37 Measuring user involvement: a diffusion of innovation perspective

Leon A. Kappelman

May 1995 **ACM SIGMIS Database**, Volume 26 Issue 2-3

Full text available:  pdf(1.54 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

User involvement is a need-based motivational attitude toward information systems and their development. As such, it has important implications for the successful creation and deployment of information systems in organizations. This paper reports on the development and validation of an instrument to determine if the distinction between a user's involvement in the process of information system diffusion can be measured independently of that user's involvement with the information system innovatio ...

Keywords: adaptation, attitude, diffusion of innovation, implementation, instrument validation, research frameworks, research methods, user engagement, user involvement, user participation, user process involvement, user satisfaction, user system involvement

38 LABATCH.2: software for statistical analysis of simulation sample path data

George S. Fishman

December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available:  pdf(117.08 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

39 Returns to science: computer networks in oceanography

Bradford W. Hesse, Lee S. Sproull, Sara B. Kiesler, John P. Walsh

August 1993 **Communications of the ACM**, Volume 36 Issue 8

Full text available:  pdf(3.60 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: productivity, science and engineering networks, scientific computing, scientists as users

40 Analysis methodology: Constrained Monte Carlo and the method of control variates

Roberto Szechtman, Peter W. Glynn

December 2001 **Proceedings of the 33rd conference on Winter simulation**

Full text available:  pdf(123.38 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A constrained Monte Carlo problem arises when one computes an expectation in the presence of a priori computable constraints on the expectations of quantities that are correlated with the estimand. This paper discusses different applications settings in which such constrained Monte Carlo computations arise, and establishes a close connection with the method of control variates when the constraints are of equality form.

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Relevance scale

41 Gaussian importance sampling and stratification: computational issues

Paul Glasserman, Philip Heidelberger, Perwez Shahabuddin

December 1998 **Proceedings of the 30th conference on Winter simulation**Full text available: [pdf\(128.52 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)
42 What should we teach?

Adele Goldberg

October 1995 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings of the 10th annual conference on Object-oriented programming systems, languages, and applications (Addendum)**, Volume 6 Issue 4Full text available: [pdf\(1.09 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)
43 Visual profiles: a critical component of universal access

Julie A. Jacko, Max A. Dixon, Robert H. Rosa, Ingrid U. Scott, Charles J. Pappas

May 1999 **Proceedings of the SIGCHI conference on Human factors in computing systems: the CHI is the limit**Full text available: [pdf\(961.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This research focuses on characterizing visually impaired computer users performance on graphical user interfaces by linking clinical assessments of low vision with visual icon identification. This was accomplished by evaluating user performance on basic identification and selection tasks within a graphical user interface, comparing partially sighted user performance with fully sighted user performance, and linking task performance to specific profiles of visual impairment. Results in ...

Keywords: disabilities, low vision, universal access, visual icons

44 Grid-based simulation and the method of conditional least squares

Katherine B. Ensor, Peter W. Glynn

November 1996 **Proceedings of the 28th conference on Winter simulation**Full text available: [pdf\(581.55 KB\)](#) Additional Information: [full citation](#), [references](#)

45 An approach to designing reusable service frameworks via virtual service machine

Jun-Jang Jang

May 2001 **ACM SIGSOFT Software Engineering Notes**, Proceedings of the 2001 symposium on Software reusability: putting software reuse in context, Volume 26 Issue 3Full text available:  [pdf\(268.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes a new service-computing platform named Virtual Service Machine (VSM). Service computing is a new paradigm for manufacturing IT artifacts, lifting up traditional focus of software development from the level of applications to that of services. Applications are constructed for machines; services are built for people. Applications are targeted to run on a particular platform; services are aimed for serving user's needs. While service computing is getting much more attention ...

Keywords: object-oriented technologies, service computing platform, service framework, software architecture

46 Letters to the editor: on the multidimensional uniformity of pseudorandom generators

John RB Whittlesey

May 1969 **Communications of the ACM**, Volume 12 Issue 5Full text available:  [pdf\(267.36 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

Keywords: Fourier analysis, Marsaglia's theorem, Monte Carlo applications, Tausworthe generators, digital shift registers, linear recurrence modulo two generators, multidimensional uniformity, multiplicative congruential (Lehmer) generators, parallel hyperplanes, pseudo-random numbers, random n-tuples, random number analysis, random number generators, runs up-and-down, statistical tests for randomness, uniform hyper-cubes

47 A few more trouble spots in ALGOL 60

Derick Wood

May 1969 **Communications of the ACM**, Volume 12 Issue 5Full text available:  [pdf\(267.36 KB\)](#) Additional Information: [full citation](#), [references](#)

Keywords: ALGOL, programming language, semantics, syntax

48 Correlations as eigenvalues - an APL function

S. K. Katti, Bashir A. Khan

September 1989 **ACM SIGAPL APL Quote Quad**, Volume 20 Issue 1Full text available:  [pdf\(164.12 KB\)](#) Additional Information: [full citation](#), [index terms](#)**49 Incorporating clinical diagnoses in the prediction of performance on computer-based tasks for low vision users**

Julie A. Jacko

June 1999

ACM SIGCAPH Computers and the Physically Handicapped, Issue 64

Full text available:  [pdf \(223.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Researchers focusing on investigations of human-computer interaction are developing a heightened awareness of the challenges that impede universal access to information technologies. Furthermore, researchers are acknowledging that low vision computer users represent a sizeable portion of the computing community for whom information technologies must be made available if we are to claim successful universal access. The low vision computing community represents a vast array of visual capabilities a ...

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